APPENDIX VII

TABLE *16—Continued*

	Gas on Gas	Air on Air	Gas on Waste Gas	Air on Wasfce Gas
The volume occupied by the checker brick will be = weight			56 m³ 86	100 m³ 90
20-minute cyclic = =			75 m³ 82	133 m³ 94
25~minute cycle =			94 m³ 78	157 m³ 38
Pass volume in choekerwork :	5m³ 32	8m³ 51	5m³ 19	7m³ 58
t° average in checker	850° 4.1195	750° 3.7525	1200° 5.4040	1100° 5.0370
1-Kd for average /°	21 m³	31 m³	28 m³	38 m³
.....	92	93	05	18
Temperature change	+700°	-1-900°	-S00°	-1000°
Average; lim ! in checker seconds, 200° per second change in *L* . .	3.50	4.50	4.00	5.00
Basing pass volume on gas and air heating time, the pass	76 m³ 72	143 m³ 68	2.735	3.763
Total checker volume: 15-minute cycle	133 m³ 58	244 m³ 58	4775 cu ft 5372 cu ft	8613 cu ft 9778 cu ft
20-ininute cycle.	152 m³ 54	277 m³ 62	6040 cu ft	10600 cu ft
25-mirmte cycle	171 m³ 50	301m ³ 06		
Percentage of Hpaec occupied by Brick, lf)-miuute cycle	42.57	41.26		
Brick, 2Q-tninute cycle	57.43	58.74		
Pass	49.70	48.25		
Brick, 25~minuto cycle	50.29	51.75		
Pans	55.26	52.28		
In order to provide a margin for all possible contingencies, the 25 minute, cycle will bo used	44.74 0.6689	47.72		
= v'o "4772 =		0.680		
Brick = 1 0000 — 0 0080= ...	0.331	8		
1 000') — 0 0808=	1			
Make both alike tmHedongas, using a 2.f> in. (f».'J mm.) briek: Dim<insion of unit pass =		0.3192		
Brick thieknc KH , . .	190mm	7. 5 in.		
Diameter square pa«B	63mm 127mm	2. 5 in 5.0 in		